

Artificial Limbs

VOLUME 14, 1970

COMMITTEE ON PROSTHETICS RESEARCH AND DEVELOPMENT
DIVISION OF ENGINEERING

and

COMMITTEE ON PROSTHETIC-ORTHOTIC EDUCATION
DIVISION OF MEDICAL SCIENCES

of the
NATIONAL RESEARCH COUNCIL

NATIONAL ACADEMY OF SCIENCES

2101 Constitution Avenue

Washington, D. C. 20418

Artificial Limbs is a publication of the Committee on Prosthetics Research and Development and the Committee on Prosthetic-Orthotic Education, National Research Council, issued in the spring and autumn of each year in partial fulfillment of Veterans Administration Contract V1005M-1914, Social and Rehabilitation Service Contract SRS-71-7, and Maternal and Child Health Service Contract SRS-70-52. Copyright © 1970 by the National Academy of Sciences. Quoting and reprinting are freely permitted, provided that appropriate credit is given. The opinions expressed by contributors are their own and are not necessarily those of either of the committees. Library of Congress Catalog Card No. 55-7710.

Editorial Board: Eugene F. Murphy, Ph.D., Prosthetic and Sensory Aids Service, Veterans Administration, New York, N.Y.; Herbert Eftman, Ph.D., College of Physicians and Surgeons, Columbia University, New York, N.Y., and Frank W. Clippinger, M.D., Duke University Medical Center, Durham, N.C.

CONTENTS

No. 1, Spring 1970

A POLYPROBLEM

Colin A. McLaurin	i
-------------------------	---

LIMB PROSTHETICS—1970

A. Bennett Wilson, Jr.	1
-----------------------------	---

A MATERIAL FOR DIRECT FORMING OF PROSTHETIC SOCKETS

A. Bennett Wilson, Jr.	53
-----------------------------	----

DIRECT FORMING OF BELOW-KNEE PTB SOCKETS WITH A THERMOPLASTIC MATERIAL

Anthony Staros and Henry F. Gardner	57
---	----

DIRECT FORMING OF BELOW-ELBOW SOCKETS

Gennaro Labate and Thomas Pirello	65
---	----

EVALUATION OF POLYSAR BELOW-ELBOW FITTING PROCEDURES

Clyde M. E. Dolan	73
-------------------------	----

TECHNICAL NOTES	75
-----------------------	----

NEWS AND NOTES	77
----------------------	----

No. 2, Autumn 1970

PROJECTS, PROGRAMS, AND PERSPECTIVES

Eugene F. Murphy	i
------------------------	---

THE PROSTHETICS AND ORTHOTICS PROGRAM

A. Bennett Wilson, Jr.	1
-----------------------------	---

AMPUTEES AND THEIR PROSTHESES

Elizabeth J. Davies, Barbara R. Friz, and Frank W. Clippinger	19
--	----

THE USE OF EXTERNAL SUPPORT IN THE TREATMENT OF LOW BACK PAIN

Jacquelin Perry	49
-----------------------	----

EVALUATION OF SYNTHETIC BALATA FOR FABRICATING SOCKETS FOR BELOW-KNEE AMPUTATION STUMPS

A. Bennett Wilson, Jr.	58
-----------------------------	----

A NEW APPROACH TO PATIENT ANALYSIS FOR ORTHOTIC PRESCRIPTION— PART I: THE LOWER EXTREMITY

Newton C. McCollough, Charles M. Fryer, and John Glancy	68
--	----

TECHNICAL NOTES	81
-----------------------	----

NEWS AND NOTES	83
----------------------	----

